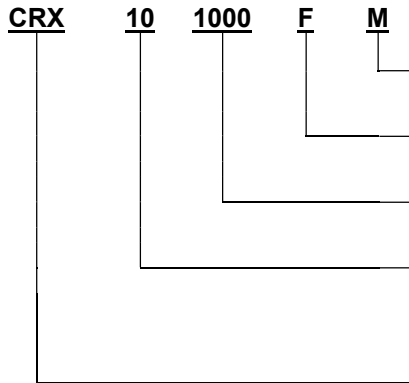


CRX/CJX Series SMD Resistors

Custom solutions are available.

HOW TO ORDER



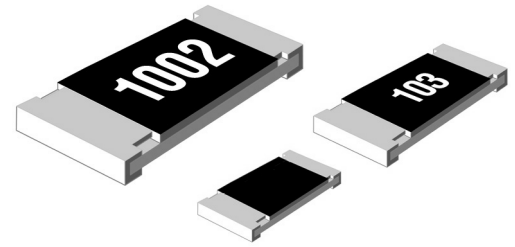
Packaging
M = 7" Reel B = Bulk

Tolerance (%)
J = ± 5 G = ± 2 F = ± 1 D = ± 0.5

EIA Resistance Value
Standard Decade Values

Size
16 = 0603 18 = 1206
10 = 0805 14 = 1210
05 = 0402

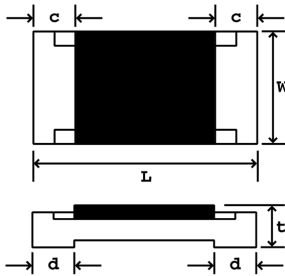
Series
CJX = Jumper CRX = Resistor



FEATURES

- Gold (Au) Upper Inner Layer prevents sulfuration in a sulfur containing environment
- Ideal solder attachment and improved conductivity
- High Stability Thick Film Resistor
- Operating temperature $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- Tolerances as tight as $\pm 0.5\%$
- TCR to $\pm 200\text{ppm}$

SCHEMATIC

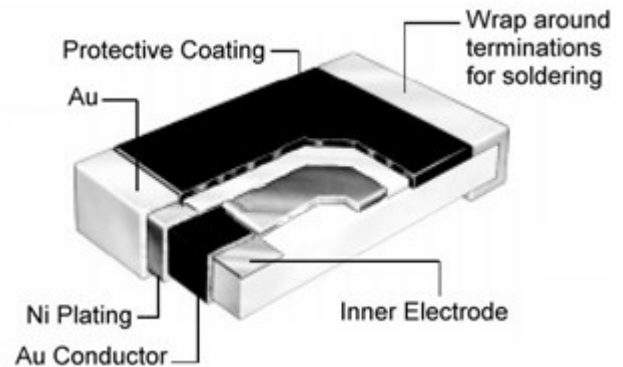


DIMENSIONS (mm)

| Size | L | W | t | c | d |
|------|----------------------|---------------------|-----------------|-----------------|-----------------------|
| 0402 | 1.00 ± 0.005 | 0.50 ± 0.05 | 0.35 ± 0.05 | 0.20 ± 0.10 | $0.25 \pm 0.05, 0.10$ |
| 0603 | 1.60 ± 0.15 | 0.80 ± 0.15 | 0.45 ± 0.10 | 0.30 ± 0.20 | 0.30 ± 0.20 |
| 0805 | 2.00 ± 0.20 | 1.25 ± 0.10 | 0.50 ± 0.10 | 0.40 ± 0.20 | 0.40 ± 0.20 |
| 1206 | $3.20^{+0.015-0.20}$ | $1.60^{+0.05-0.15}$ | 0.60 ± 0.10 | 0.50 ± 0.25 | 0.50 ± 0.30 |
| 1210 | 3.20 ± 0.10 | $2.50^{+0.20-0.10}$ | 0.60 ± 0.10 | 0.50 ± 0.20 | 0.50 ± 0.20 |
| 2010 | 5.00 ± 0.20 | 2.50 ± 0.15 | 0.60 ± 0.10 | 0.60 ± 0.20 | 0.50 ± 0.30 |
| 2512 | 6.30 ± 0.20 | 3.20 ± 0.20 | 0.60 ± 0.10 | 0.70 ± 0.20 | 0.70 ± 0.20 |

CONSTRUCTION

| | | |
|--------------------|--------------------------------|------|
| Substrate | 96% Alumina | |
| Resistive Element | RuO ₂ | |
| Protective Coating | Boric/Silicate Acid Lead Glass | |
| Terminal | Upper Inner Layer | Au |
| | Side/Bottom Layer | AgPd |
| | Middle Layer | Ni |
| | Outer Layer | Sn |



| Size | 0402 | 0603 | 0805 | 1206 | 1210 | 2010 | 2512 |
|--------------------------------|---|---|---|---|---|---|---|
| Power Rating (EIA 575) | 0.063W | 0.1W | 0.10W | 0.125W | 0.25W | 0.75W | 1w |
| Max Working Voltage* | 50V | 50V | 150V | 200V | 200V | 200V | 200V |
| Max Overload Voltage | 100V | 100V | 300V | 400V | 400V | 400V | 400V |
| Tolerance (%) | $\pm 0.5, \pm 1, \pm 2 \pm 5$ | $\pm 0.5, \pm 1, \pm 2 \pm 5$ | $\pm 0.5, \pm 1, \pm 2 \pm 5$ | $\pm 0.5, \pm 1, \pm 2 \pm 5$ | $\pm 0.5, \pm 1, \pm 2 \pm 5$ | $\pm 0.5, \pm 1, \pm 2 \pm 5$ | $\pm 0.5, \pm 1, \pm 2 \pm 5$ |
| EIA Values | E-96, E-24 | E-96, E-24 | E-96, E-24 | E-96, E-24 | E-96, E-24 | E-96, E-24 | E-96, E-24 |
| Resistance | 10 ~ 1 M Ω | 10 ~ 1 M Ω | 10 ~ 1 M Ω | 10 ~ 1 M Ω | 10 ~ 1 M Ω | 10 ~ 1 M Ω | 10 ~ 1 M Ω |
| TCR (ppm/ $^{\circ}\text{C}$) | ± 200 | ± 200 | ± 200 | ± 200 | ± 200 | ± 200 | ± 200 |
| Operating Temp. | $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ | $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ | $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ | $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ | $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ | $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ | $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ |

* Rated Voltage: $\sqrt{P \times R}$

The content of this specification may change without notification 08/30/2007